

FIG. 1
(Prior Art)

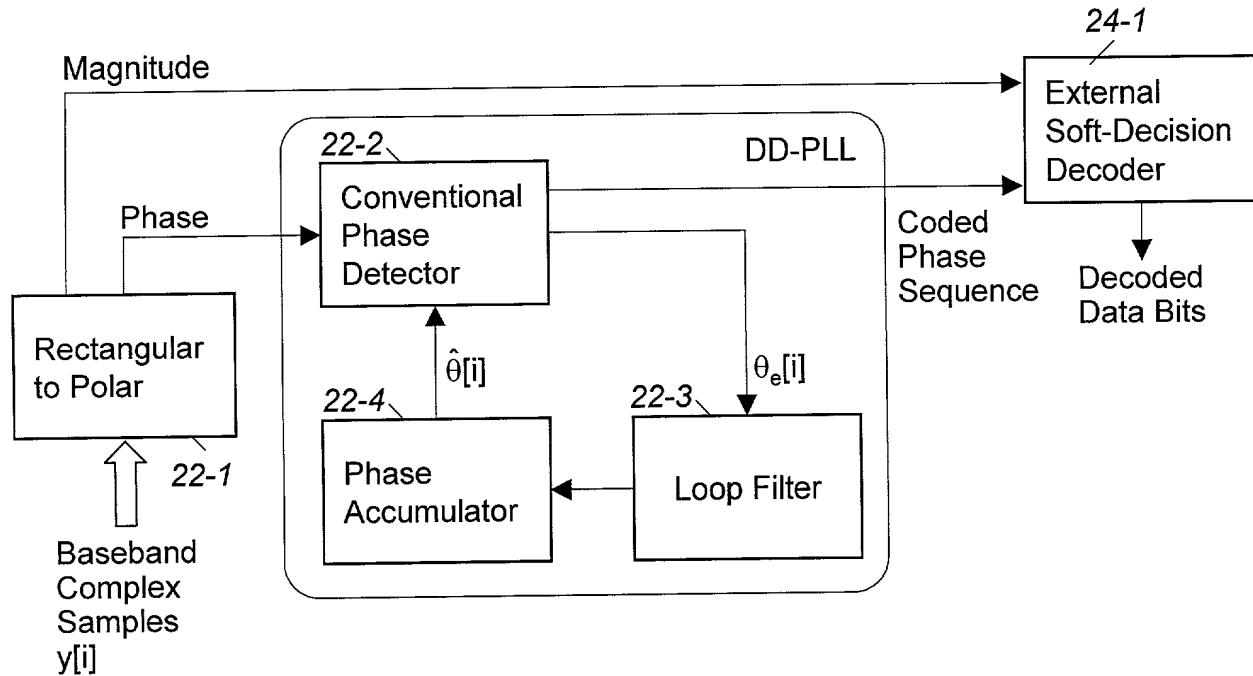


FIG. 2

Improved decision directed phase locked loop with the soft-decision decoder inside the phase detector

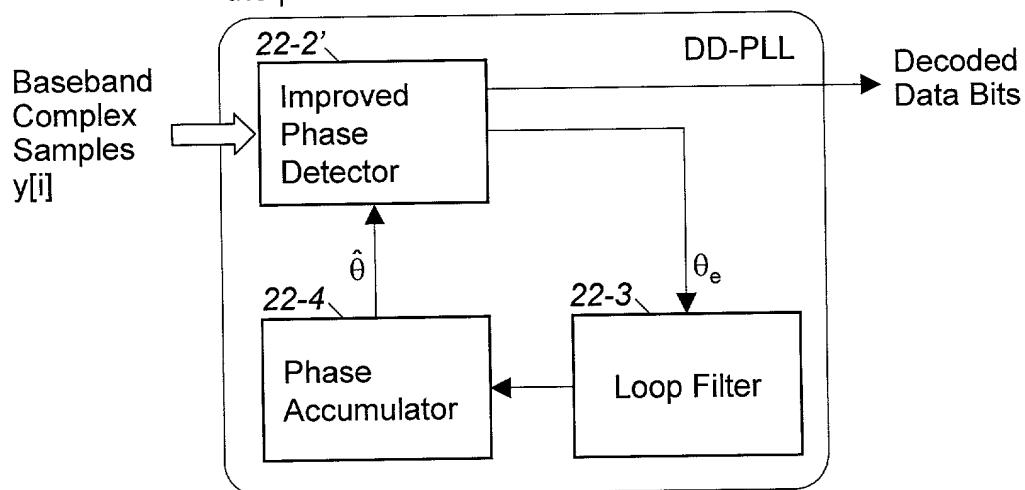


FIG. 3

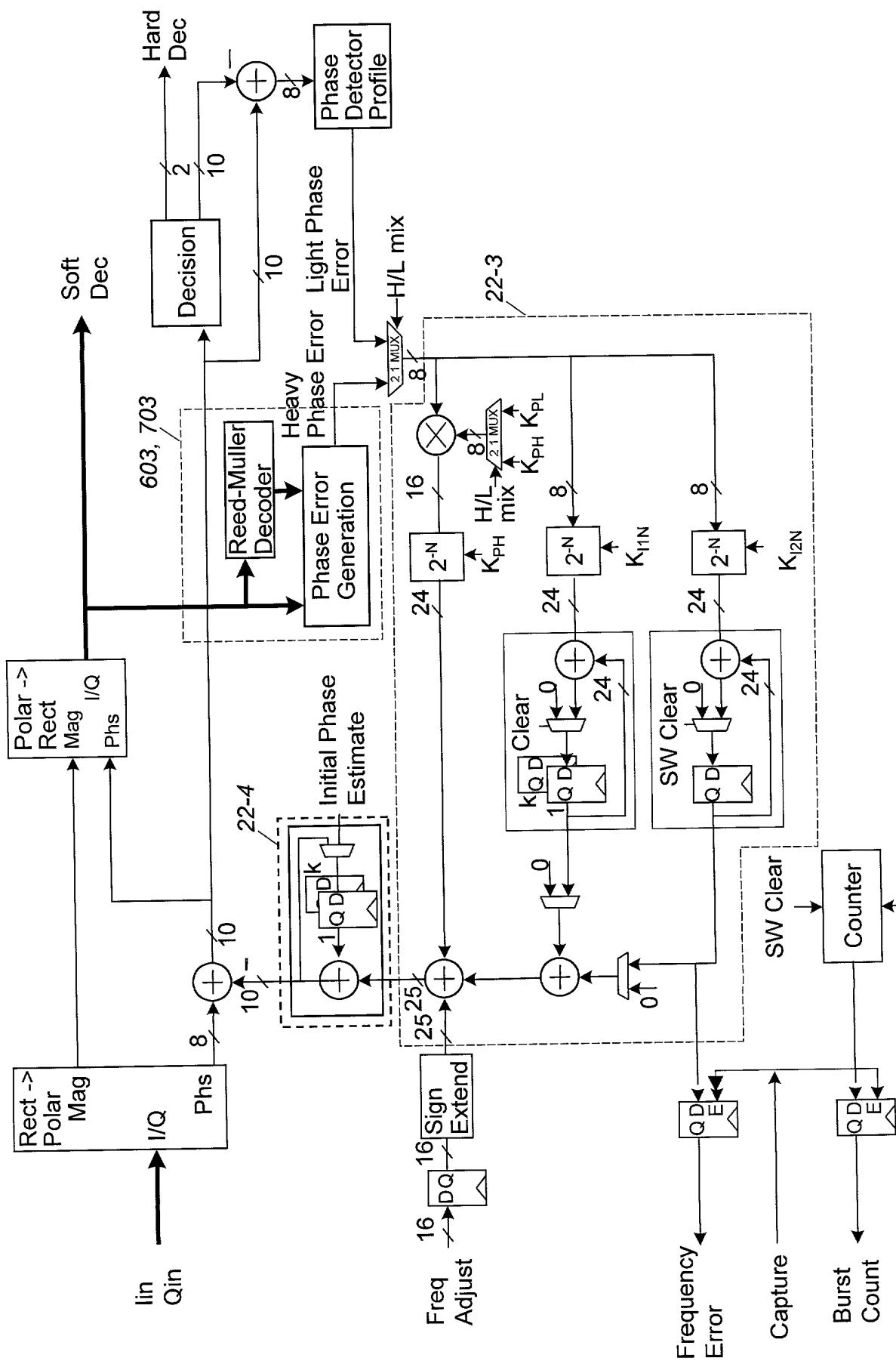


FIG. 4

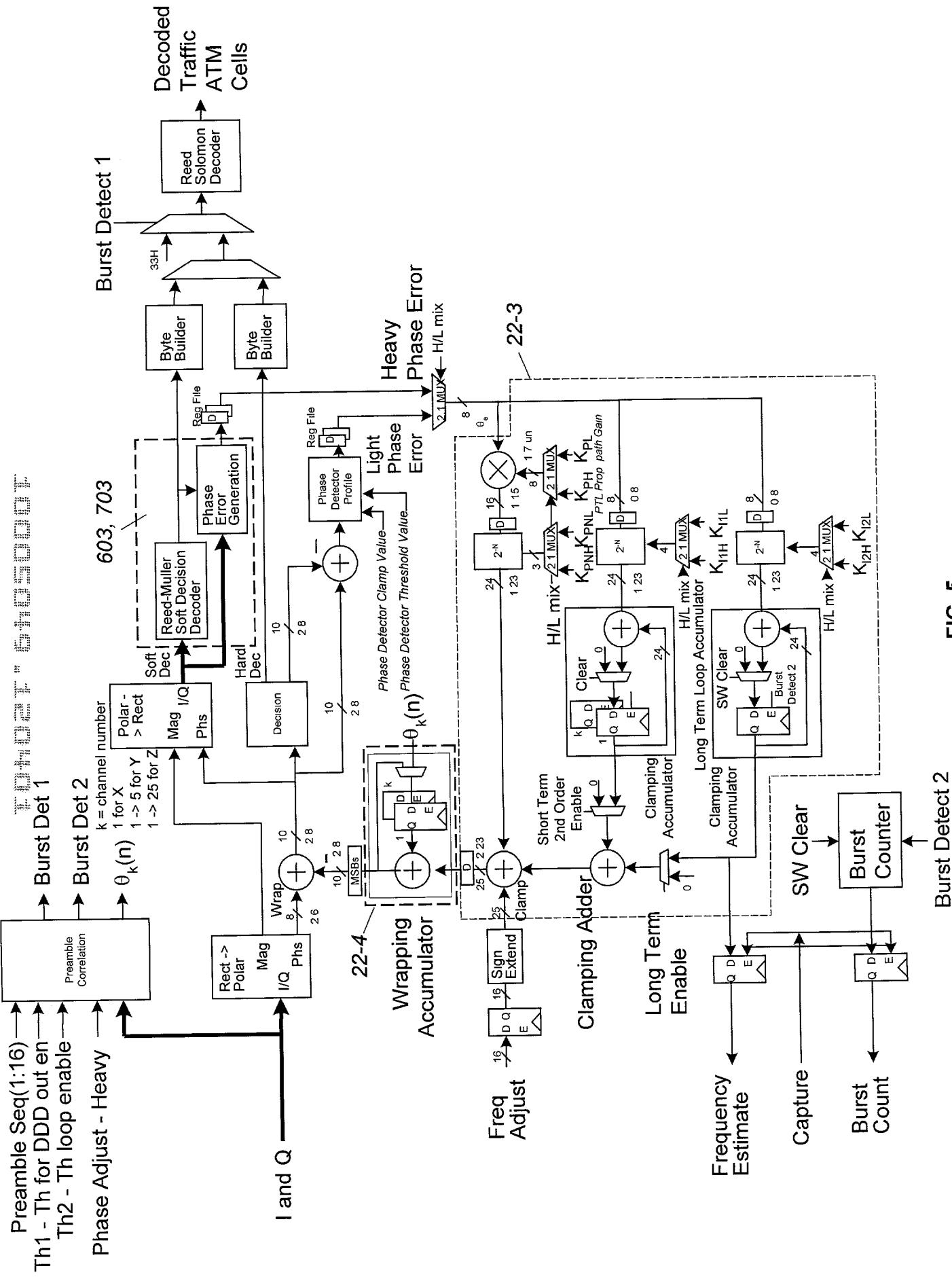


FIG. 5

Burst Detect 2

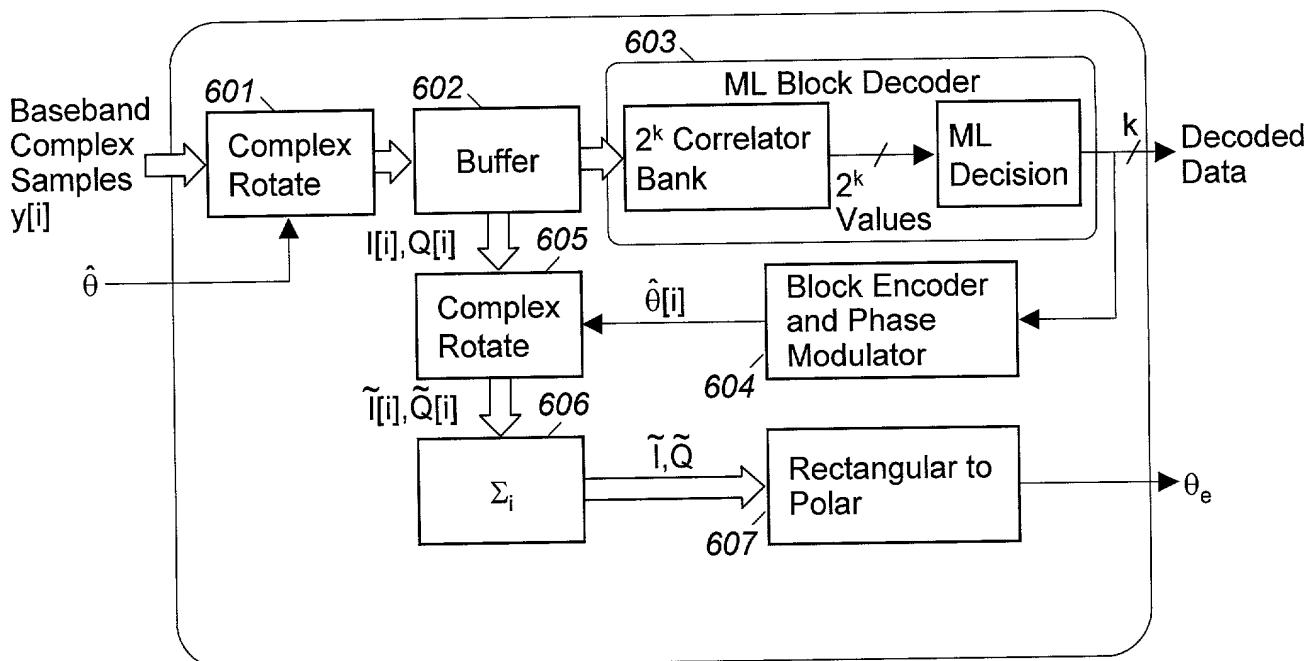


FIG. 6

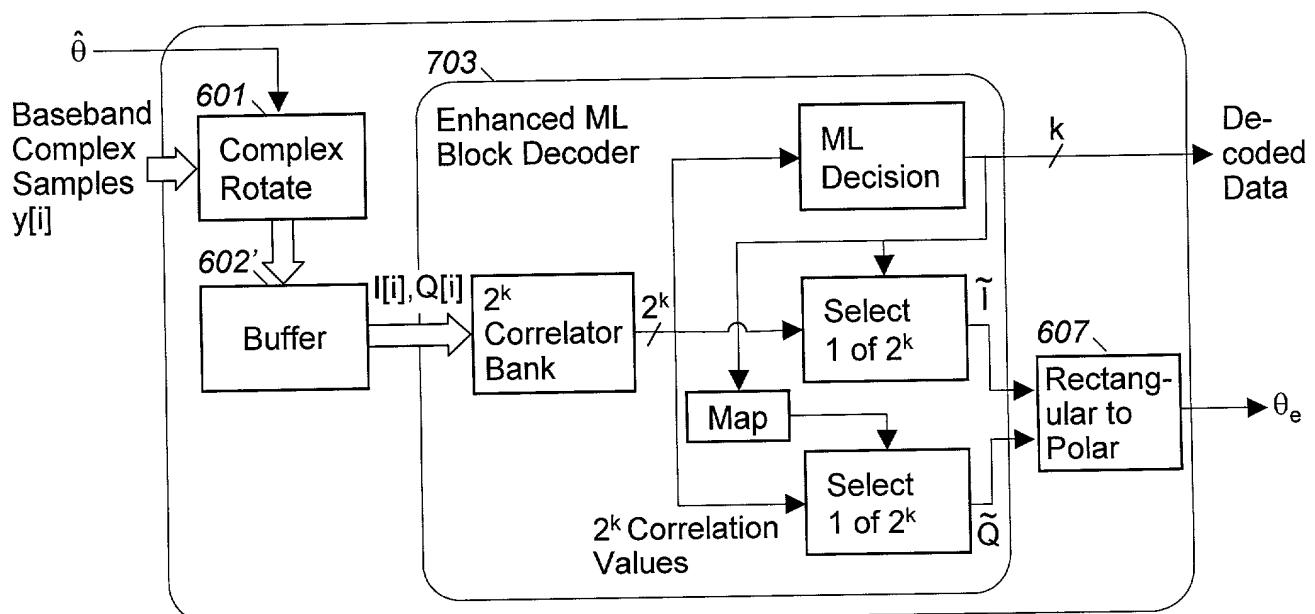


FIG. 7

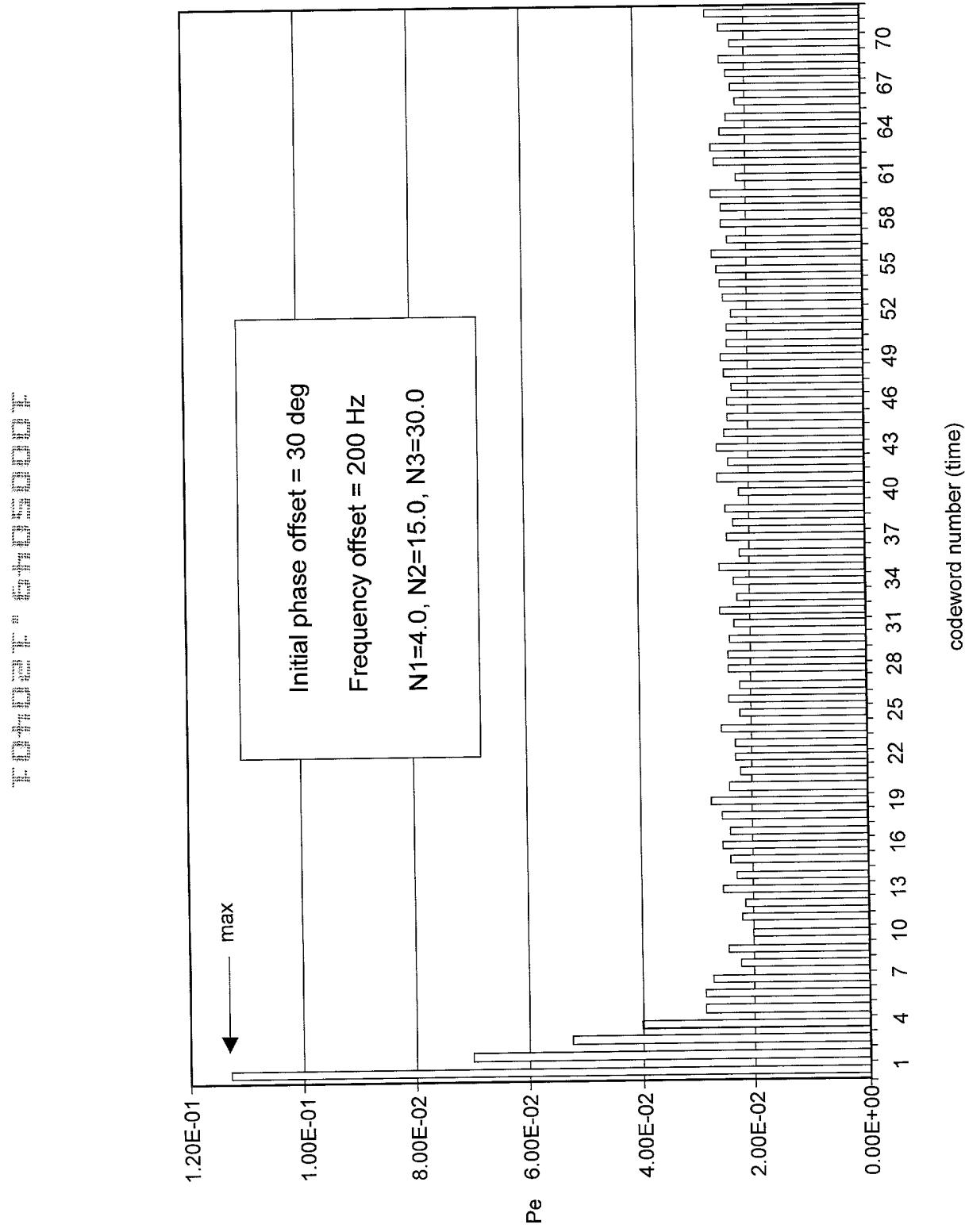


FIG. 8A

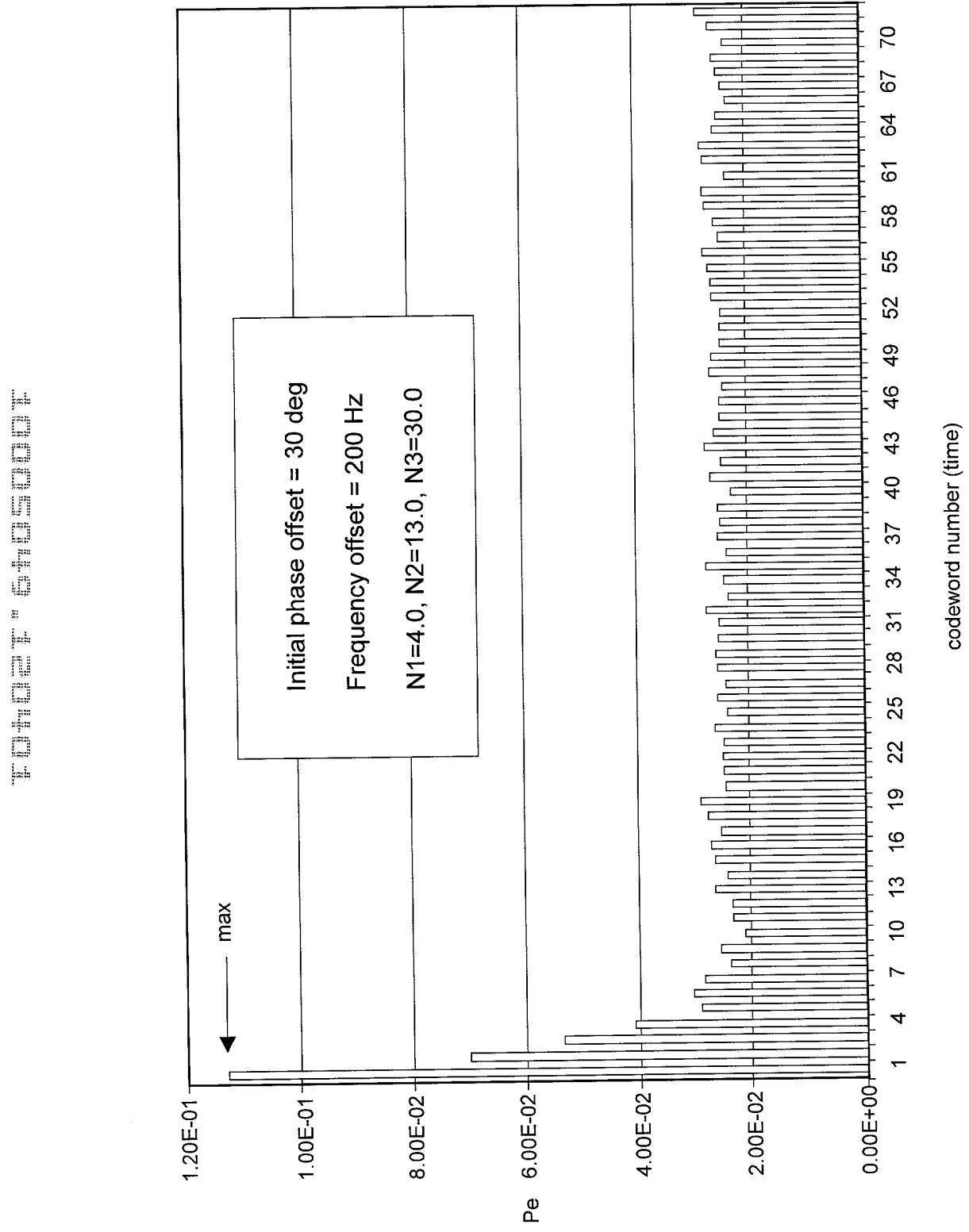


FIG. 8B

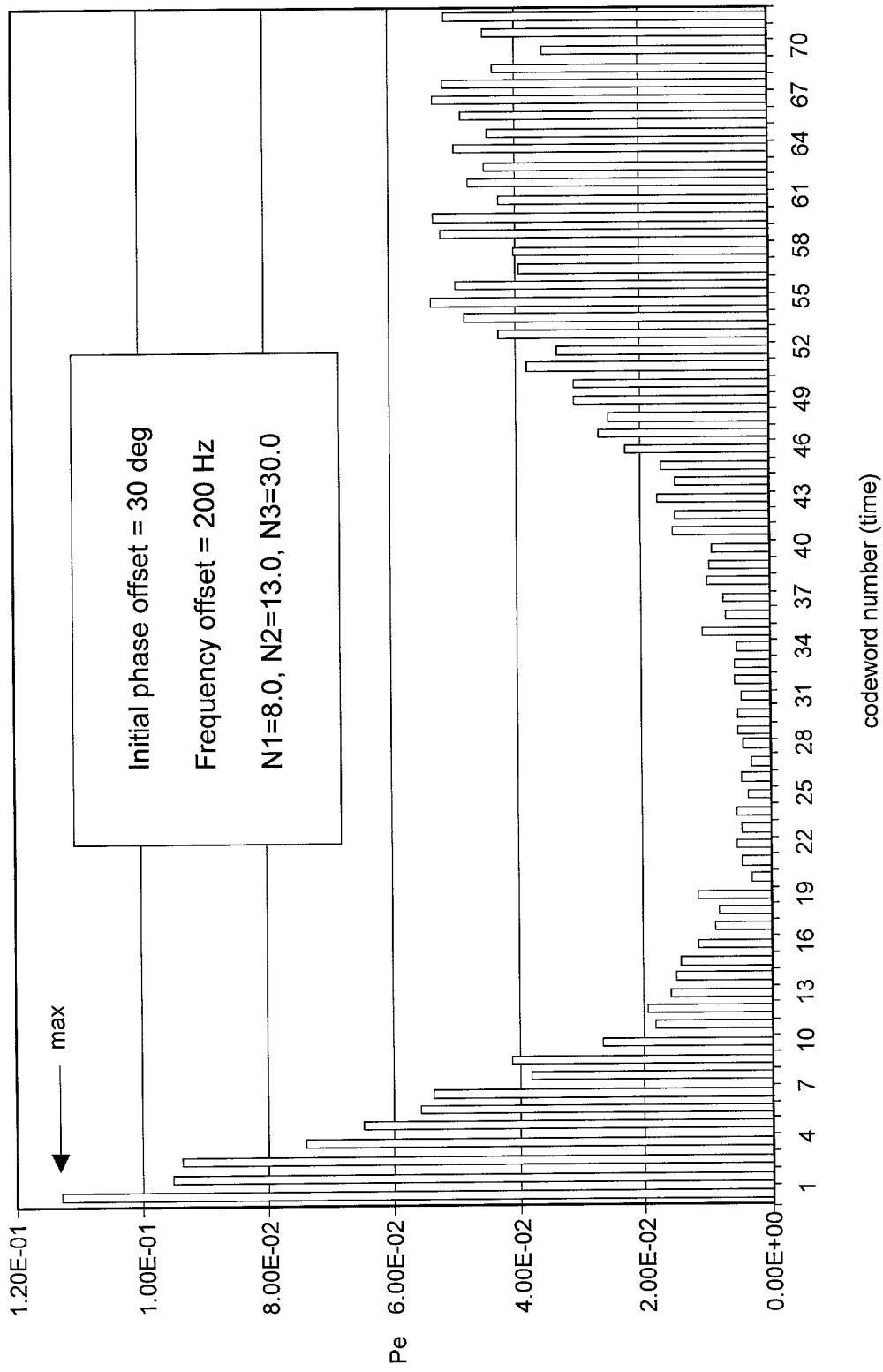


FIG. 8C

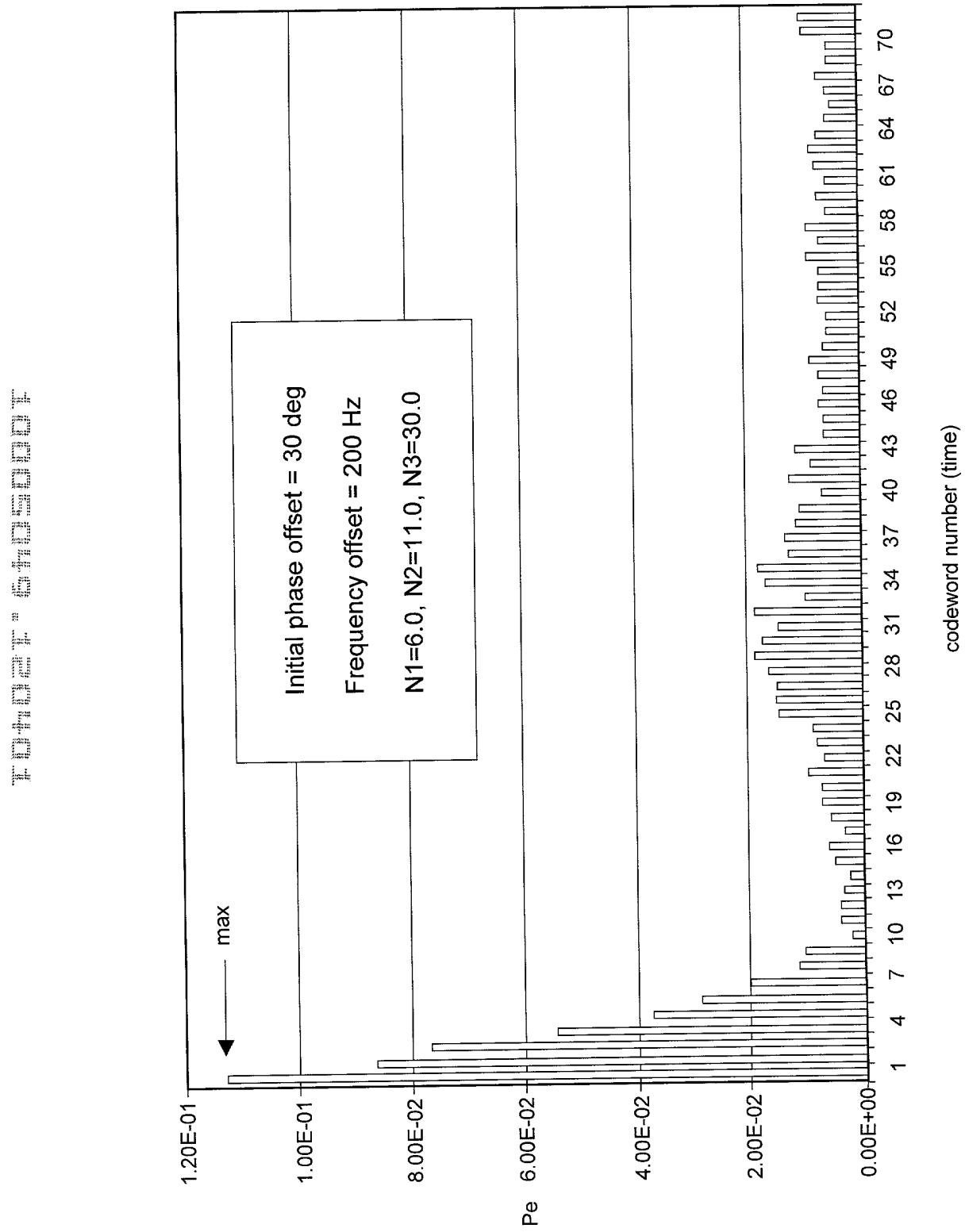


FIG. 8D

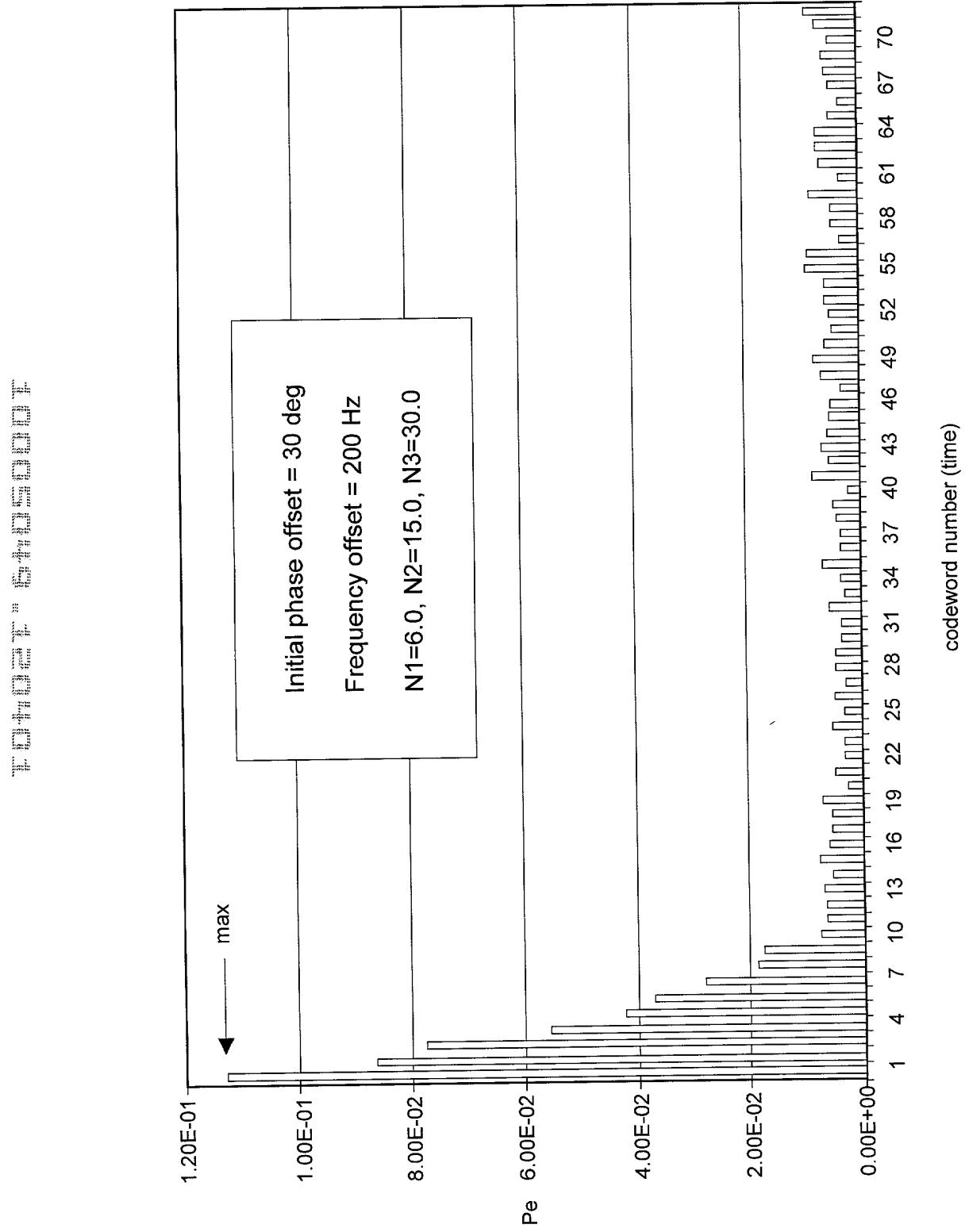


FIG. 8E

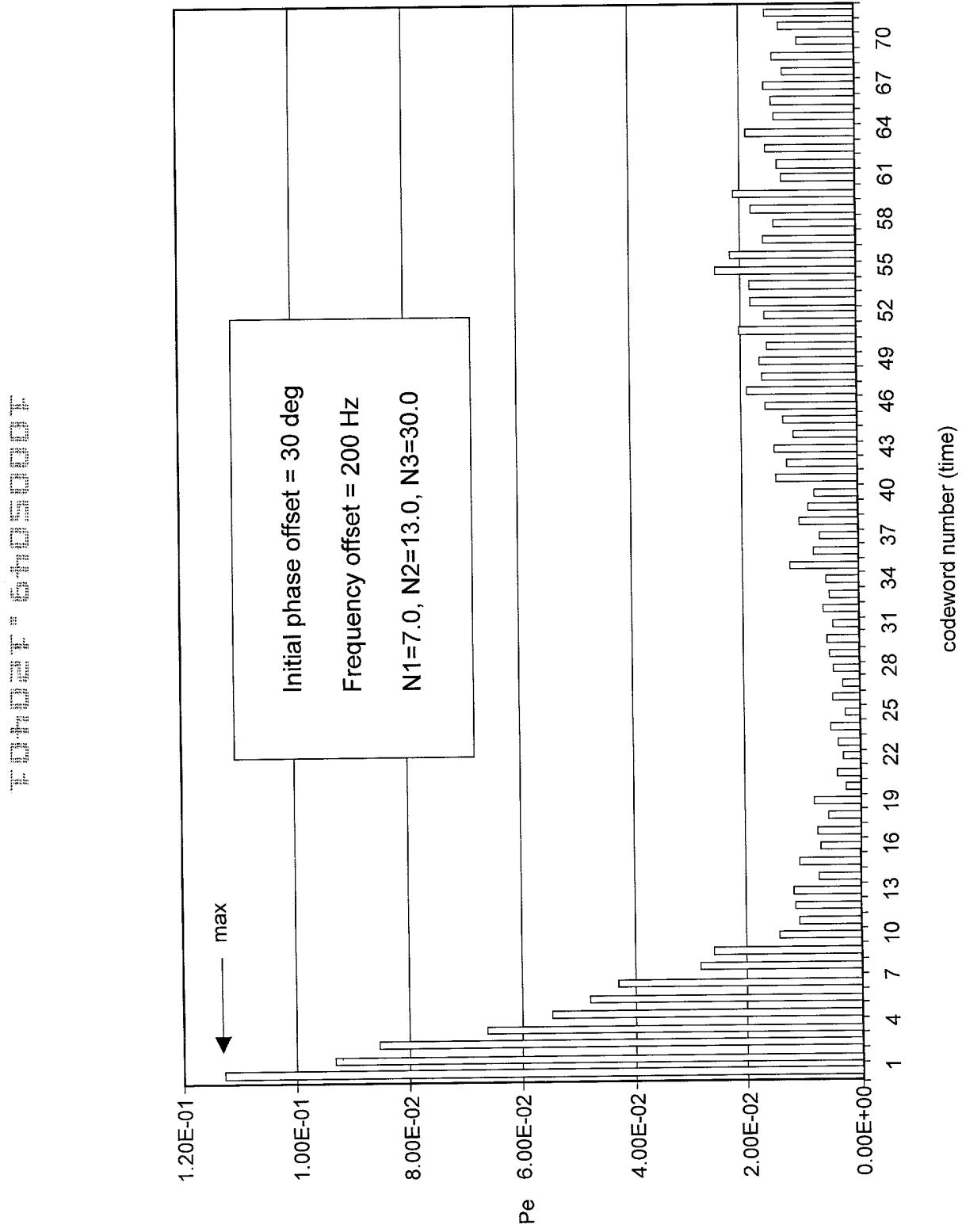


FIG. 8F

1.20E-01
1.00E-01
8.00E-02
Pe 6.00E-02
4.00E-02
2.00E-02
0.00E+00

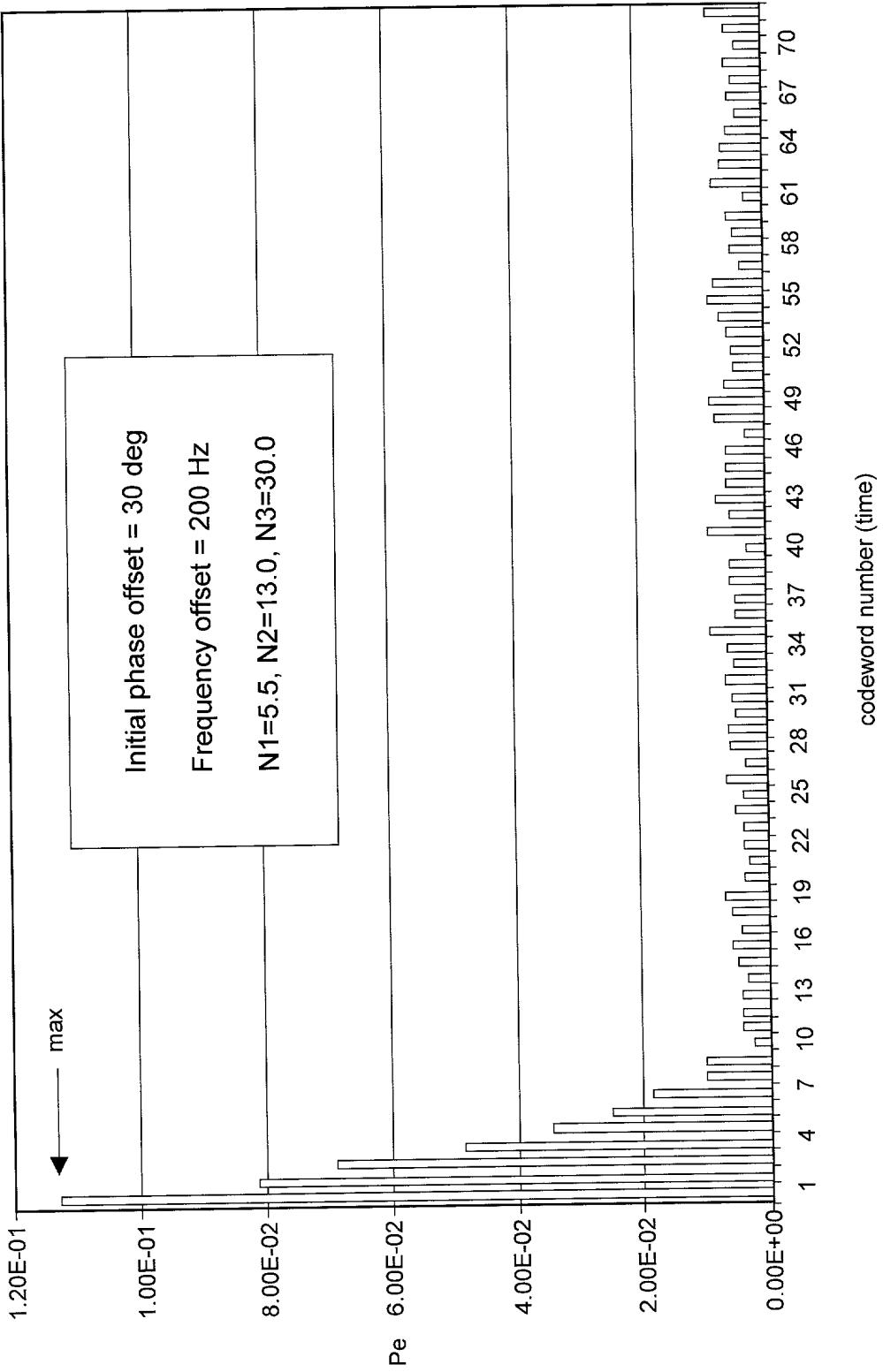


FIG. 8G

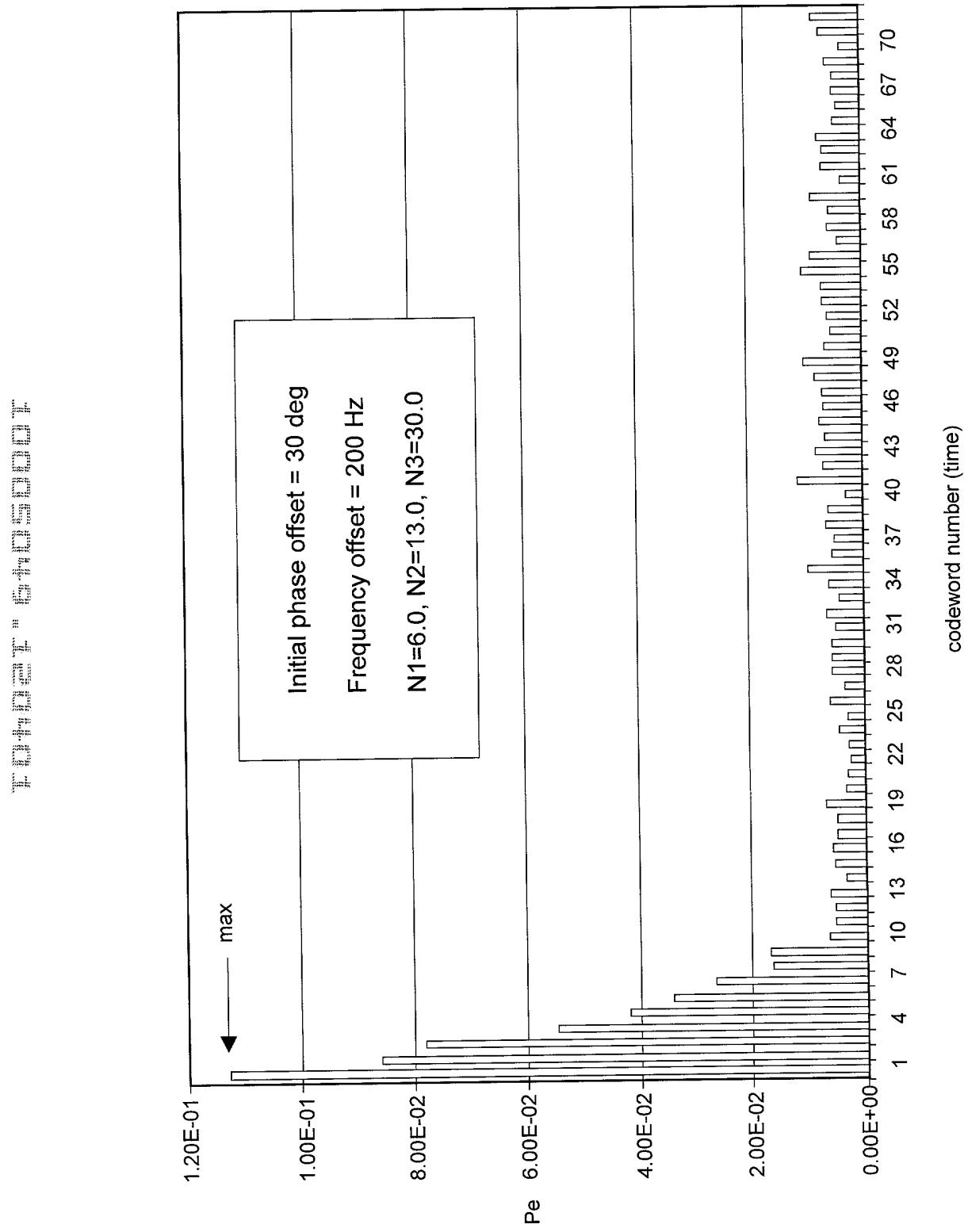


FIG. 8H

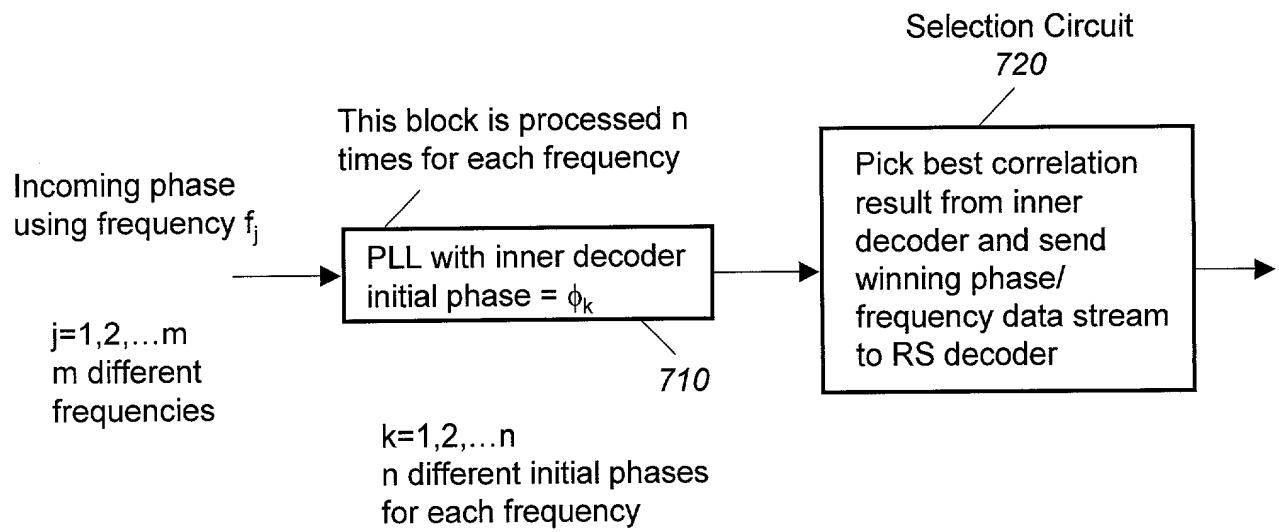
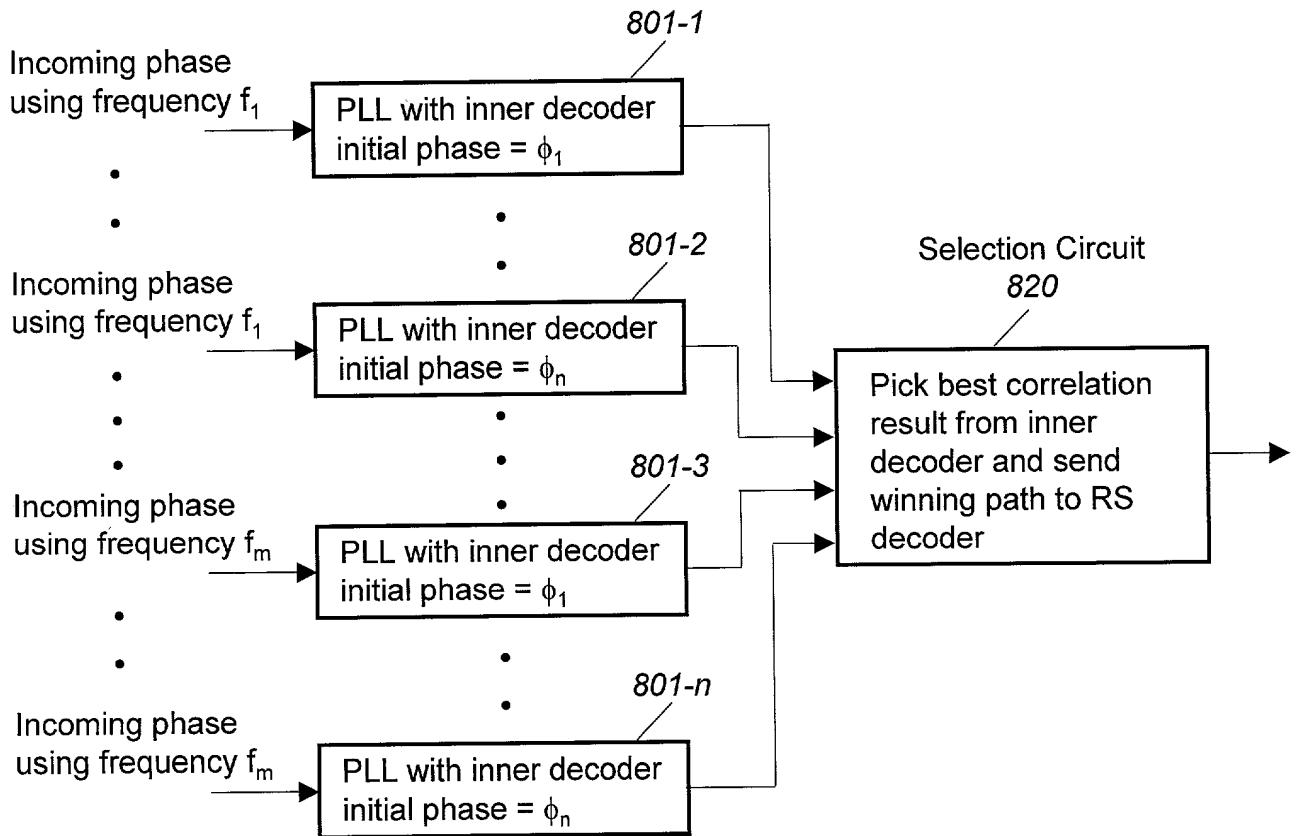


FIG. 9



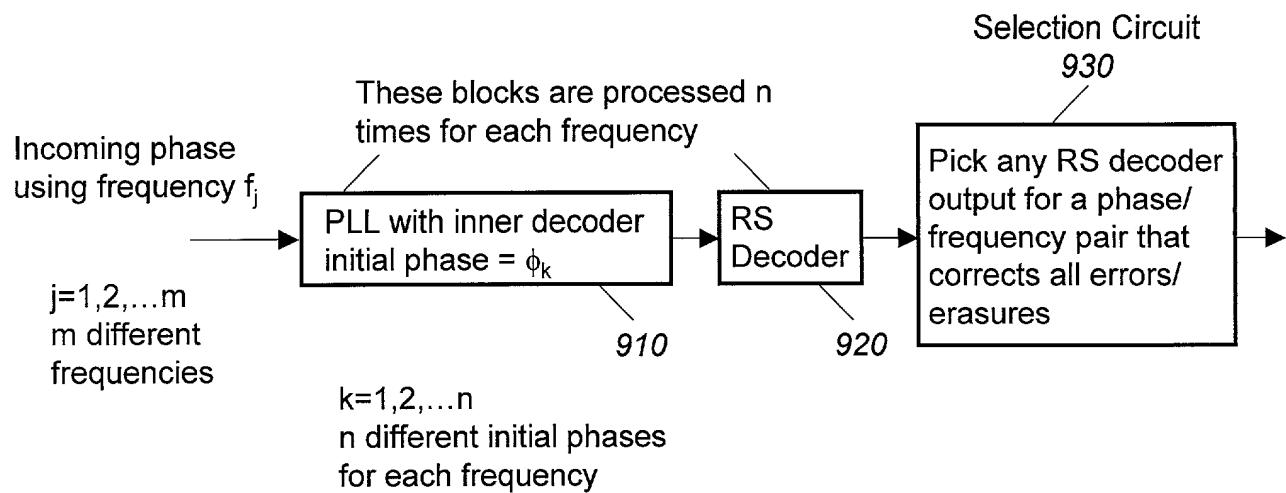


FIG. 11

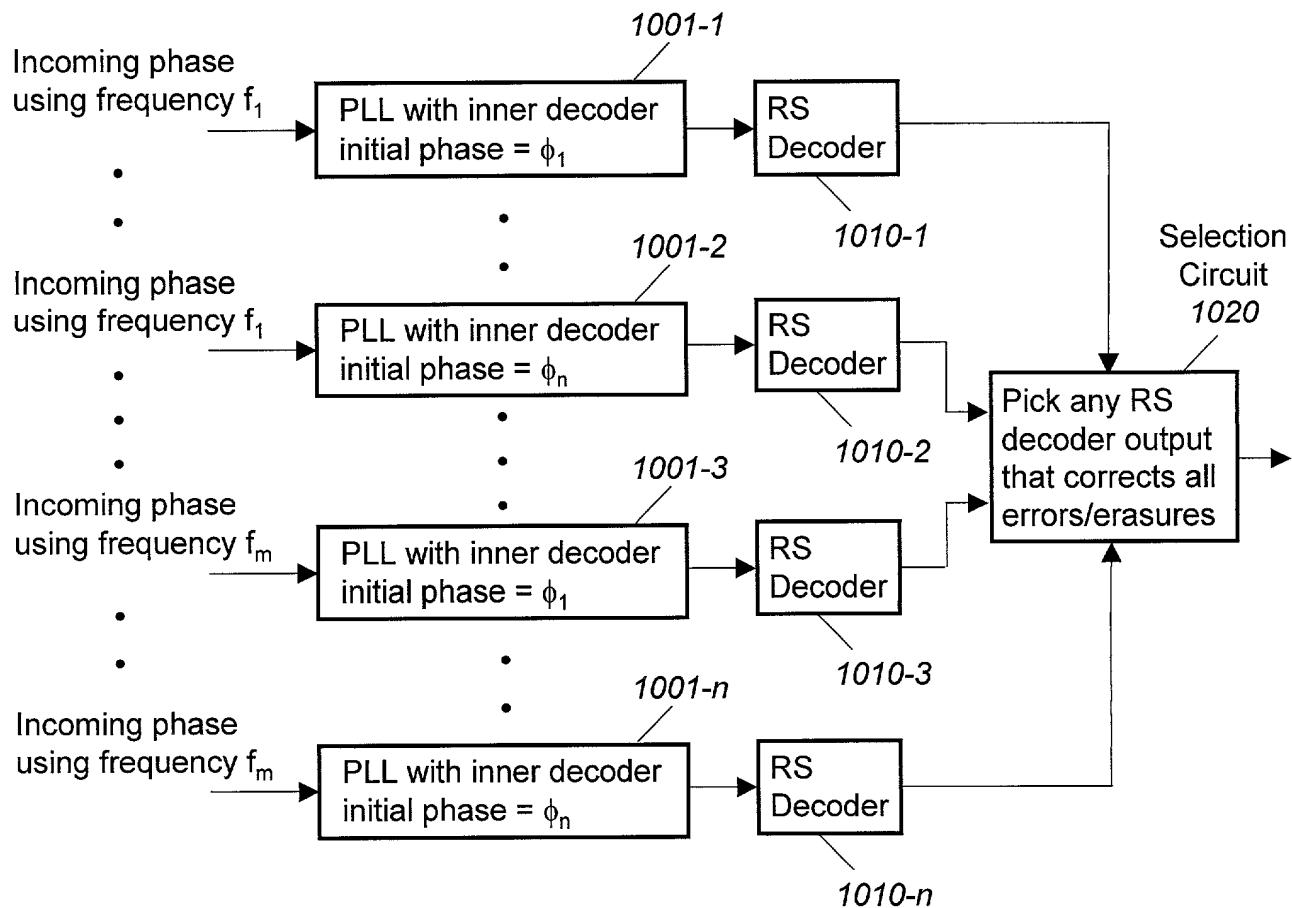


FIG. 12